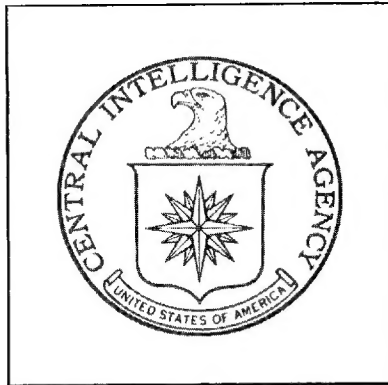


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**DIRECTORATE OF  
INTELLIGENCE**

**Industrial Facilities  
(Non-Military)**

*Basic Imagery Interpretation Report*

**Selected Electric Power Plants**

**Shantung Province, China**

*Handle via Talent - Keyhole  
Channels Only*

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**Declass Review by NIMA / DoD**

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RCS 13/0033/72

CENTRAL INTELLIGENCE AGENCY  
Directorate of Intelligence  
Imagery Analysis Service

ABSTRACT

25X1D This report, based on [REDACTED] photography, updates previous basic reporting  
25X1D on five of the major electric power plants in Shantung Province, northern  
China. It also includes the initial basic report on another plant, Tzu-po  
Thermal Power Plant No. 2. The cutoff date for information is [REDACTED]

25X1D Tzu-po Thermal Power Plant No. 2 was operating and nearly complete when  
25X1D it was first observed on photography in [REDACTED]. It was started sometime  
after [REDACTED]

25X1D [REDACTED]

Five of the plants were operating and one was probably operating  
on the latest coverage.

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## INTRODUCTION

This report covers the following six major thermal electric power plants in Shantung Province (see Figure 1).

1. Chi-nan Thermal Power Plant Huang-tai.
2. Han-chuang Thermal Power Plant.
3. Tzu-po Thermal Power Plant.
4. Tzu-po Heat and Thermal Power Plant Nan-ting.
5. Tzu-po Thermal Power Plant No. 2.

## Requirement

COMIREX N05

Support Number 422803

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FIGURE 2. CHI-NAN THERMAL POWER PLANT HUANG-TAI,

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chi-nan Thermal Power Plant Huang-tai		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SNR078625	36-42-26N 117-05-44E	
MAP REFERENCE		
USATC, Series 200, Sheet M0381-21HL, 4th ed. Sep 69, Scale 1:200,000		
(SECRET/No Foreign Dissem)		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D		NA

#### BASIC DESCRIPTION

25X1D No changes have been observed at Chi-nan Thermal Power Plant since the date of the latest photography used in the previous report.

25X1D The plant was operating in Heavy smoke was coming from the stack and vapor from both cooling towers. All four spray ponds were operating (see Figure 2).

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FIGURE 4. HAN-CHUANG THERMAL POWER PLANT,

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Han-chuang Thermal Power Plant		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SNP335295	34-36-22N 117-21-52E	
MAP REFERENCE		
USATC, Series 200, Sheet M0386-6H1, 3rd ed, Aug 69, Scale 1:200,000		
(SECRET/No Foreign Dissem)		
LATEST IMAGERY USED		NEGATION DATE (if required)
NA		NA

BASIC DESCRIPTION

25X1D No changes have been observed at Han-chuang Thermal Power Plant since the date of the latest photography used in the previous report.

25X1D The plant was operating in Heavy smoke was coming from both stacks (see Figure 4).

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FIGURE 5. TZU-PO THERMAL POWER PLANT

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Tzu-po Thermal Power Plant		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SNR760369	36-28-38N 117-51-04E	
MAP REFERENCE		
25X1C	USATC, Series 200, Sheet M0381-22HL, 4th ed, Jul 68, Scale 1:200,000	
25X1C	(SECRET/No Foreign Dissem)	
LATEST IMAGERY USED		NEGATION DATE (If required)
25X1D		NA

25X1D BASIC DESCRIPTION

25X1D No changes have been observed at Tzu-po Thermal Power Plant since [REDACTED]

25X1D [REDACTED] the date of the latest photography used in the previous report.

25X1D The plant was operating in [REDACTED] Light smoke was coming from the stack and one of the five spray ponds was operating (see Figure 5).

Imagery Reference

25X1D [REDACTED]

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Tzu-po Heat and Thermal Power Plant Nan-ting		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SNR939711	36-47-20N 118-03-10E	
MAP REFERENCE		
USATC, Series 200, Sheet M0381-22HL, 4th ed, Jul 68, Scale 1:200,000		
(SECRET/No Foreign Dissem)		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D		NA

BASIC DESCRIPTION

Heavy smoke over the Tzu-po Heat and Thermal Power Plant Nan-ting in  
precluded a detailed analysis of the plant. No changes have  
been observed in the interpretable portions of the plant since  
the date of the latest photography used in the previous report.

The plant was operating in as indicated by smoke coming  
from the eastern stack and vapor from the natural-draft cooling tower. The  
second stack was not seen. All three spray ponds appeared to be operating.

Imagery Reference



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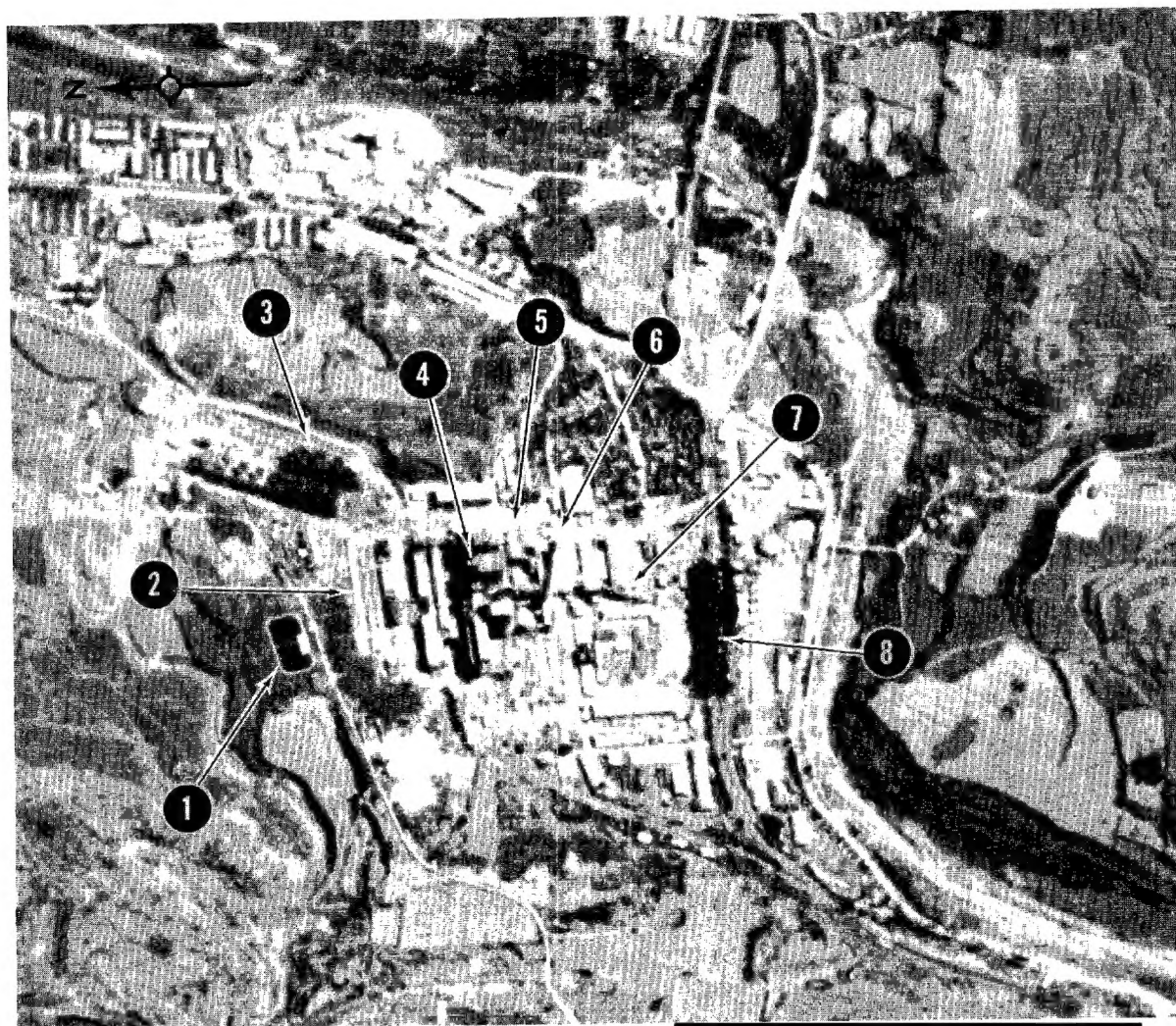


FIGURE 6. TZU-PO THERMAL POWER PLANT NO. 2

Key to Annotations		
Item No.	Description	Measurements (ft)
1	Settling ponds	--
2	Switching yard	--
3	Induced-draft cooling units (3)	200 x 50
4	Generator hall	380 x 60
5	Boilerhouse	230 x 100
6	Stack	--
7	Coal conveyor/handling system	--
8	Coal storage yard	--

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INSTALLATION OR ACTIVITY NAME			COUNTRY	
Tzu-po Thermal Power Plant No. 2			CH	
25X1A	UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
	50SNR770365	36-28-30N 117-51-10E	None	None
25X1C	MAP REFERENCE			
25X1C	USATC, Series 200, Sheet M0381-22HL, 4th ed, Jul 68, Scale 1:200,000			
25X1C	(SECRET/No Foreign Dissem)			
25X1D	LATEST IMAGERY USED		NEGATION DATE (if required)	

#### BASIC DESCRIPTION

Tzu-po Thermal Power Plant No. 2 is located about 1 nm south of Tzu-po and about one half nm southeast of Tzu-po Thermal Power Plant. The plant is both road and rail served.

In [REDACTED] the plant consisted of a boilerhouse, a generator hall, a masonry stack, a switching yard, a coal storage yard, a coal conveyor/handling system, a coal processing building, three banks of induced-draft cooling units, and two small water settling ponds. A probable fourth induced-draft cooling unit was under construction. The position of the stack in relation to the boilerhouse suggests that the plant will undergo expansion sometime in the future (see Figure 6).

Construction of the plant began between [REDACTED]. On the [REDACTED] coverage, the plant consisted of a boilerhouse, a generator hall, a coal conveyor/handling system, a coal processing building, and two settling ponds. Two banks of induced-draft cooling units were under construction, and numerous construction support and storage buildings were present. A third induced-draft cooling unit was constructed between [REDACTED].

The plant was operating in [REDACTED] as indicated by light smoke coming from the stack. Vapors were coming from the induced-draft cooling units in [REDACTED] indicating the plant was probably operating.

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